

We claim:

1. A method of manufacturing a screen for downhole use, comprising:
  - inserting a base pipe into a cylindrically shaped filter layer;
  - securing said filter layer to said base pipe by changing one of their dimensions.
2. The method of claim 1, comprising:
  - creating an interference fit between said base pipe and said filter layer.
3. The method of claim 1, comprising:
  - expanding said base pipe.
4. The method of claim 1, comprising:
  - reducing the size of said filter layer.
5. The method of claim 1, comprising:
  - securing said filter layer to said base pipe without welding, adhesives or mechanical connectors.
6. The method of claim 1, comprising:
  - inserting said base pipe and filter layer downhole;
  - expanding said base pipe downhole.
7. The method of claim 1, comprising:
  - mounting a protective jacket to said filter layer before inserting said base pipe.
8. The method of claim 2, comprising:
  - expanding said base pipe.
9. The method of claim 8, comprising:
  - securing said filter layer to said base pipe without welding, adhesives or mechanical connectors.

10. The method of claim 9, comprising:
  - inserting said base pipe and filter layer downhole;
  - expanding said base pipe downhole.
11. The method of claim 10, comprising:
  - mounting a protective jacket to said filter layer before inserting said base pipe.
12. The method of claim 3, comprising:
  - expanding said base pipe for at least a portion of the length of said filter layer.
13. The method of claim 12, comprising:
  - expanding said base pipe near the ends of said filter layer.
14. The method of claim 12, comprising:
  - expanding said base pipe for the entire length of said filter layer and beyond.
15. A method of manufacturing a screen for downhole use, comprising:
  - inserting a base pipe into a cylindrically shaped filter layer;
  - applying a material to the base pipe to contact said filter layer;
  - applying heat to said base pipe to allow said material to secure the filter layer to the base pipe.
16. The method of claim 15, comprising:
  - using a series of substantially parallel ribs to form the filter layer;
  - using a series of ribs on said base pipe positioned in an offset manner from said ribs of said filter layer to allow said filter layer to be slipped over said base pipe;
  - using said ribs on said base pipe to retain said filter layer.

17. The method of claim 15, comprising:
  - using a coating on the outer surface of said base pipe as the material applied to the base pipe;
  - securing the filter layer to said base pipe with said coating.